

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/GB2004/001443

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 F03B13/20

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 F03B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EP0-Internal

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4 118 932 A (SIVILL ALISTAIR DAVID) 10 October 1978 (1978-10-10)  column 1, line 62 - column 3, line 20; claims; figures 1-4	1-5,7,8, 12,13, 20,22, 23,26, 27,33,34
X	US 4 077 213 A (HAGEN GLENN E) 7 March 1978 (1978-03-07)	1-4,13, 18,20, 27,33,34
Y	column 5, line 31 - column 6, line 22; figures 3-6,9 column 6, line 63 - column 8, line 29  -/--	7,8,22, 23

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

### \* Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
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- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
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Date of the actual completion of the international search

10 August 2004

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25/08/2004

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 6 476 511 B1 (PIZER DAVID ET AL) 5 November 2002 (2002-11-05) cited in the application	7,8,22, 23
A	the whole document	6,9,10, 14-16, 21,24, 25,28-30
X	GB 2 036 190 A (ENERGY SECRETARY OF STATE FOR) 25 June 1980 (1980-06-25)  the whole document	1,2,4,5, 13,20, 27,33,34
X	US 1 018 678 A (F.M. NELSON) 27 February 1912 (1912-02-27)  the whole document	1,2,4, 13,18, 20,27, 33,34
X	US 1 078 323 A (L.A. TRULL) 11 November 1913 (1913-11-11) the whole document	1,2,4, 18,20,33

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
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US 1078323	A		NONE	